Amendments to the Specification:

Please change the title as follows:

METHOD AND MEANS FOR CURVING SAUSAGE LINKS

Please replace the Cross Reference to a Related Application with the following rewritten paragraph:

CROSS REFERENCE TO A RELATED APPLICATION

This application is a division of U.S. Serial No. 10/037,098 filed October 22, 2001 now U.S. Patent No. 6,780,452 issued August 24, 2004.

Please replace the Brief Summary of the Invention paragraph with the following rewritten paragraph:

BRIEF SUMMARY OF THE INVENTION

A method of device for creating curved sausage links involves extruding an elongated sausage strand having linear protein fibers therein out of an elongated hollow meat emulsion extrusion tube. The flow of meat emulsion through the tube is partially restricted by a restrictor element within the tube which permits a portion of the meat emulsion to pass thereover in a substantially uninterrupted manner, but which requires a separate portion of meat emulsion to have its movement through the tube inhibited by engaging the restrictor element and having to move thereover to exit the tube. This phenomenon causes the unrestricted meat emulsion to have the elongated protein fibers therein to position themselves in a linear configuration, with

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the interrupted meat emulsion portion having the protein fibers therein changed to a random configuration. A gradient of the linear fibers generally called a first portion gradually progresses to the second general portion where the fibers are in a random configuration. When the sausage strand comprising the two general portions which exit the extrusion tube are subjected to heat, the uninterrupted portion is inclined to have more lengthwise shrinkage in the presence of heat than the other portions, thus causing the sausage link to assume a curved configuration. The machine for practicing this method device has a stuffing tube with the restrictor element therein as described heretofore.

Please replace the Detailed Description of the Preferred Embodiment with the following rewritten paragraph:

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

With reference to Fig. 7, a conventional sausage making machine 10 has a frame 12 and supporting legs 14. A meat emulsion pump 16 is operatively connected to a stuffing or extrusion tube 18 of this invention which is located directly upstream from a conventional twister assembly 20.

Immediately downstream therefrom is a conventional linker assembly 22 which divides the sausage strand from the twister to be divided into separate sausage links. Those links are discharged conventionally from the linker assembly through a discharge horn 24. A conventional link cutter 26 divides the sausage strand into a plurality of links which are deposited on the endless conveyor 28. The conveyor 28 deposits the links to an exit conveyor 32. The heater 30 could be a microwave oven, a

vat of hot oil, a frying surface, a steam cooker with saturated hot air, hot liquid smoke, etc. The links 34 on conveyor 28 have a straight configuration, and as will be explained hereafter, the links 34 are changed to a curved configuration as shown by the links 36 shown on conveyor 32. This change in configuration is effected as the links pass through the heater 30.

With reference to Fig. 3, the numeral 38 designates the intake end of extrusion tube 18 which receives meat emulsion from the pump 16. Tube 18 has a discharge end 40 which discharges a strand of meat emulsion to the twisting mechanism 20. The tube 18 conventionally has a hollow cylindrical bore 42. A restrictor element 44 (Fig. 3) has a ramp 46 which extends forwardly and upwardly from the bottom of bore 42. The top surface 48 of the restrictor element 48 has an arcuate shape as best shown in Figs. 5 or 5A. The forward end of the resistor restrictor element terminates in a diagonal undercut front end 50 which is located approximately 10mms from the discharge end 40. The restrictor element 44 is secured with tube 18 by set screw 51. A passage 52 is created above the restrictor element. The single sausage strand 54 (Fig. 6) has a portion 56 comprising a gradient portion 58 wherein the protein fibers 57A are in a longitudinal or linear configuration. The portions 56 and 58 are forced longitudinally through the tube 18 in an uninterrupted fashion past and above the restrictor element 48 so that the linear orientation of the protein fibers 57A therein is significantly not interrupted. Again with reference to Figs. 6 and 8, a lower portion 60 of the sausage strand 54 comprises a lower portion 62 comprised of fibers 57B of random orientation. The lower portion 62 of meat emulsion encounters the ramp 46 of restrictor element 44 and moves upwardly and over the top surface 48 thereof, and thence over the front end thereof to fill the portion of the stuffing tube

forwardly of the restrictor element (Fig. 6). Thus, the sausage strand exiting the tube 18 is comprised of an upper portion 58 wherein the protein fibers are linearly disposed, and a lower portion 62 wherein the protein fibers are variably dispersed in a random fashion by the restrictor element 44. In reality, a gradient exists wherein the linearly aligned fibers of the upper portion 58 gradually transitions to the randomly aligned fibers in the "lower" portion 62. Thus, the discharged sausage strand 58A comprised of the two portions 58 and 62 moves into the heating oven 30. The temperature within the heating oven 30 should be in the range of approximately 65°-85° C. In this heated environment, the upper portion 58 shrinks lengthwise at a greater degree than the lower portion 62, and thereupon causes the otherwise straight links 34 to assume the curved condition shown by the links 36 (Figs. 7 and 8). This method is applicable to sausage strands of different diameters.

It is therefore seen that this invention permits the creation of curved links of sausages without any external forces and with only a single sausage emulsion. It is therefore seen that this invention will achieve at least all of its stated objectives.

Please replace the Abstract of the Disclosure with the following rewritten paragraph:

ABSTRACT OF THE DISCLOSURE

A method of device for creating curved sausage links involves extruding an elongated sausage strand having linear protein fibers therein out of an elongated hollow meat emulsion extrusion tube. The flow of meat emulsion through the tube is partially restricted by a restrictor element within the tube which permits a portion of the meat emulsion to pass thereover

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in a substantially uninterrupted manner, but which requires a separate layer of meat emulsion to have its movement through the tube inhibited by engaging the restrictor element and having to move thereover to exit the tube. When the sausage strand is subjected to heat, the uninterrupted portion is inclined to have more lengthwise shrinkage in the presence of heat than the other layer, thus causing the sausage link to assume a curved configuration. The machine for practicing this method device has a stuffing tube with the restrictor element therein as described heretofore.